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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/723,755	11/26/2000	Gideon P. Stein	383/03649 6332	
759	90 07/15/2005		EXAM	INER
William H Dippert Esq			NGUYEN, THU V	
Reed Smith LLP 599 Lexington Avenue 29th Floor			ART UNIT	PAPER NUMBER
New York, NY 10022-7650			3661	
			DATE MAILED: 07/15/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)
Office Action Summan	09/723,755	STEIN, GIDEON P.
Office Action Summary	Examiner	Art Unit
	Thu Nguyen	3661
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tir by within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 26 A	pril 2005.	
	s action is non-final.	
3) Since this application is in condition for allowa	nce except for formal matters, pro	osecution as to the merits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.
Disposition of Claims		
4) Claim(s) 1-6 is/are pending in the application.		·
4a) Of the above claim(s) is/are withdra	wn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-6</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/o	r election requirement.	
Application Papers		
9)☐ The specification is objected to by the Examine	ar .	•
10) The drawing(s) filed onis/are: a) acc		Examiner
Applicant may not request that any objection to the		
Replacement drawing sheet(s) including the correct	- · · ·	` '
11) The oath or declaration is objected to by the E		
	· · · · · · · · · · · · · · · · · · ·	7.00.017 01 1011111 1 10-102.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).
a) All b) Some * c) None of:		
1. Certified copies of the priority documen		
2. Certified copies of the priority documen		
3. Copies of the certified copies of the price		ed in this National Stage
application from the International Burea	• • • • • • • • • • • • • • • • • • • •	•
* See the attached detailed Office action for a list	of the certified copies not receive	ed.
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summary Paper No(s)/Mail Da	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal P	atent Application (PTO-152)
Paper No(s)/Mail Date <u>4/4/05</u> .	6) Other:	
.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office A	ction Summary	Part of Paper No./Mail Date 070605

DETAILED ACTION

The amendment filed on April 26, 2005 has been entered. By this amendment, claims 2-6 have been added, and claims 1-6 are now pending in the application.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sasaki et al (US 6,246,961) (enclosed IDS).

As per claim 1, Sasaki teaches a time to contact estimate determination system. The system comprises: an image receiver for receiving image information relating to a series of at least two images (col.3, lines 23-30); a processor 2-3 (fig.1) for determining a time to contact estimate of the vehicle (col.6, lines 15-25). Sasaki does not explicitly disclose determining a scaling factor that defines a ratio between dimensions of the obstacle. However, Sasaki teaches equation (6) in which the ratio between the dimension x in equation (6) and the Δx (the change in the dimension x obtained from the dimension x of the first image and the dimension x' of the second image) contained in parameter $u = \Delta x/\Delta t$ (col.5, line 28; line 39 (equation 6)), the result

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of the ratio Z is used to determine the time of contact (col.6, lines 18-25), therefore Sasaki obviously encompasses teaching determining the ratio of the dimensions of the images in order to determine the time to contact.

As per claim 2-3, Sasaki teaches determining horizontal and vertical optical flow (col.5, lines 44-49). Since the horizontal and vertical optical flows include equation (6) which includes ratio of the dimensions, the ratio obviously encompasses horizontal and vertical dimensions.

As per claim 4, including more than 2 images in determining time to contact would have been both well known and obvious matter of design choice.

As per claim 5, Sasaki teaches determining displacement in lateral direction x (col.5, lines 52-65).

As per claim 6, Sasaki teaches determining a likelihood of collision when the lateral displacement and the axis Z is zero (col.6, lines 1-25).

Response to Arguments

3. Applicant's arguments have been considered but are moot in view of the new grounds of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu Nguyen whose telephone number is (571) 272-6967. The examiner can normally be reached on T-F (7:30-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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July 6, 2005

THU V. NGUYEN
PRIMARY EXAMINER

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